COEM VOLUME 1		REV	DATE
Table of Contents	TABLE OF CONTENTS	74	06/30/99
Glossary	GLOSSARY	16	11/25/97
Document Control Proces 1-W56-COEM-AMN-101	Site Design Document Control Rev 1, Ch 1 Rev 1, Ch 2 Rev 1. Ch 3	1	01/01/99 02/25/99 05/11/99 07/15/99
Operations Support 1-W59-COEM-AMN-161	Preparation, Review, and Approval of System Evaluatio Reports Rev 1, Chg 1	n I	01/21/98 07/02/98
COEM VOLUME 2		REV	DATE
1-V51-COEM-DES-210	Design Process Requirements Rev 4, Ch 1 Rev 4, Ch 2 Rev 4, Ch 3 Rev 4, Ch 4	4	01/15/99 02/18/99 02/25/99 04/29/99 06/30/99
Planning, Budgets, & Pro 2-C93-COEM-DES-273	curement Engineering Standards for Procurement Rev 1, Ch 1	1	04/30/99 06/24/99



COEM VOLUME 3		REV	DATE
Directives			
Project Conception & Rec	quest		
2-F32-COEM-PMG-301	Introduction to the Construction Project Management		05110105
	System 96-DMR-000126	0	07/18/95 02/05/96
2-L92-COEM-PMG-302	Overview to Quality, Environmental, Davis-Bacon,		02/03/90
	Security, and Safety and Health Requirements for	0	07/10/05
	Project Managers 96-DMR-000127	0	07/18/95 02/05/96
3-L88-COEM-PMG-303	Project Initiation Guide	0	04/14/95
3-P31-COEM-PMG-307	Project Initiation Guide Project Data Sheet (PDS) Preparation Guide	0	04/14/95
_	•		
Scope Development, Plans		0	10/01/04
3-K08-COEM-PMG-309	Operational Requirements Document (ORD) 96-DMR-000128	0	10/01/94 02/05/96
3-P32-COEM-PMG-311	Scope and Estimate	0	10/01/94
3-L82-COEM-PMG-315	Line Item Budget Process Guide	0	04/14/95
3-L01-COEM-PMG-317	Work Breakdown Structure	0	10/01/94
3-L76-COEM-PMG-319	Scheduling	0	10/01/94
2-H36-COEM-PMG-321	Project Risk Management	0	07/18/95
3-K78-COEM-PMG-323	Preparation of Project Management Plan/Work		
	Package	. 0	10/01/94
2-P33-COEM-PMG-325	Engineering Subcontracting Guide	0	07/18/95
2 M54 COEM DMC 227	96-DMR-000129	0	02/05/96
2-M54-COEM-PMG-327	Government Furnished Equipment (GFE) 96-DMR-000130	0	07/18/95 02/05/96
Detailed Design			
Procurement & Construc	tion		
Close-out & Turnover			
3-J68-COEM-PMG-331	Project Closeout and Turnover	0	10/01/94
	96-DMR-000131		02/05/96
Administrative			
3-M02-COEM-PMG-333	Baseline Management	0	10/01/94
3-P35-COEM-PMG-335	Baseline Change Proposal Guide	0	04/14/95
3-L89-COEM-PMG-337	Cost Estimating	0	10/01/94
3-P29-COEM-PMG-339	Reporting and Reviews Guide	0	10/01/94
3-M49-COEM-PMG-341	Construction Management Review Guide	0	04/14/95
ENG-PILOT-PM-009	Project Summary Report (Pilot)	0	08/05/94
3-P36-COEM-PMG-345	Project Control/Management Control System Interface	0	10/01/94
3-M55-COEM-PMG-346 2-P38-COEM-PMG-349	Progress Tracking System/4700.1 Report Guide Records and Document Management for	0	04/14/95
4-x 50-COEM-1 MO-349	Authorization Projects	0	07/18/95
	96-DMR-000132	U	02/05/96
ENG-PILOT-PM-011	Transfer of Project Management (Pilot)	0	08/31/94
	Glossary of Project Management Terms	0	10/01/94

COEM VOLUME 4		REV	DATE
Directives			
Roles and Responsibilities	S		
Administrative Controls a	and Procedures		
4-02C-COEM-CMG-402	Project Records Management	0	03/10/95
	96-DMR-000861		07/18/95
4-03C-COEM-CMG-403	Evaluation of Non-Conforming Conditions	0	03/10/95
4-04C-COEM-CMG-404	Excavations and Soil Disturbances	0	06/01/94
4-05C-COEM-CMG-405	Davis/Bacon Covered Task Orders	0	03/10/95
4-06C-COEM-CMG-406	Construction Management Control of Government		
	Furnished Equipment (GFE)	0	05/31/95
4-07C-COEM-CMG-407	Construction Subcontracting	0	03/10/95
4-08C-COEM-CMG-408	Subcontractor Submittals	0	03/10/95
4-09C-COEM-CMG-409	Construction Field Changes	1	04/28/95
	96-DMR-000106		02/05/96
4-10C-COEM-CMG-410	Construction Daily Log Book	0	08/05/94
4-11C-COEM-CMG-411	Weekly Status Report	0	03/10/95
4-12C-COEM-CMG-412	Subcontractor's Application for Payment	0	03/10/95
4-13C-COEM-CMG-413	Support Services for Construction Projects	0	03/10/95
4-14C-COEM-CMG-414	Construction Management Line Control Safety	0	05/31/95
Test Phase			
4-15C-COEM-CMG-415	Construction Management Responsibilities for		
	Component Checkout and Systems Operations Testing	0	05/31/95
Project Close-out Phase			
4-16C-COEM-CMG-416	Performance Measurements	0	03/10/95
17C-COEM-CMG-417	Construction Closeout	1	05/20/99

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LIST OF EFFECTIVE PAGES

Pages	Effective Date	Pages	Effective Date
1-2	1/1/99		
3	7/15/99		
4	1/1/99		
5-6	2/25/99		
7-16	1/1/99		
17-19	2/25/99		
20-23	7/15/99		
24-25	2/25/99		

The following DCF(s) are active for this document:

Rev 1, Ch 1

Rev 1, Ch 2

Rev 1, Ch 3

Total number of pages is 25

SITE DESIGN
DOCUMENT
CONTROL.

1/1/99

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8. REFERENCES

Engineering Standard SX-300, General Drafting Standard MAN-027-SERM, Site Engineering Requirements Manual MAN-071-IWCP, Integrated Work Control Program Manual Security Manual 1-V41-RM-001, Records Management Guidance for Records Sources 1-V51-COEM-DES-210, Design Process Requirements

APPENDIX 1 Page 1 of 2

RFETS	ROCKY FLATS ENVIRON TECHNOLOGY SIT			Engine	ering Order	1-W56-COEM-AMN-101 Appendix 1			
Section 1: De	ocument Identific	ation							
1. IWCP/Authori	zation Project Number				2. Building	3. Date	4. Page 1 of		
5. Modification 1	itle								
Section 2: D	ocument Descrip	tion				,	3: SDDC Action Requested led Distribution Request		
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17. Landlord Cor	npany		18. Com	pany Authorizi	ng Design	19. Company Performing Design			
20. SDDC/EO Co	pordinator (Print)		2	1. Date	22. EO Number		23, EO Distribution Date		

(02/99)

APPENDIX 1

ENGINEERING ORDER - FORM COMPLETION INSTRUCTIONS

Block	Instructions
Note: Use	e the Continuation Sheet (DES-210, Form 9) if more room is required.
	: DOCUMENT IDENTIFICATION
1-5	Enter the IWCP/Authorization Project Number, Building, Date, total number of pages, and Modification Description Title.
Section 2	: DOCUMENT DESCRIPTION
6A	Check boxes and enter requested information as applicable. If document is other than an EDP/ECR, see Block 6B.
6B	Check boxes as applicable. If drawings are attached, enter the number of attached drawings in the box provided.
7	Check boxes as applicable. Verified by - print name, sign, and date indicating who verified these documents have/have not been in an RCA/RMMA.
8A	Check System Category box as applicable.
8B	Enter brief description of the Structures, Systems and Components (SSC) function.
Section 3	: SDDC ACTION REQUESTED
9	Controlled Distribution Request: Check boxes as applicable. Complete Section 4 if new or if revising Controlled Distribution List. Complete Section 5 if document other than an EDP/ECR.
10	Release Document Request: Check box as applicable. If document is <u>not</u> an EDP/ECR, provide document description in Section 5. If document is being released to SDDC for "Distribution," see Block 9 instructions.
11	Check the appropriate box. If the drawing is not part of a project/activity, a BDCF is not needed.
Section 4:	: DISTRIBUTION
12	NOTE: Go to Section 4A on EO Page 2 to enter additional distribution. Enter the name and organization. Enter the recipient's location (building). Enter B (for ½ size drawings) or D (for full size drawings). Enter the number of copies. Enter total number of copies required for Additional Distribution from Section 4A on Form 1A, if applicable.
	Enter total number of copies required for distribution.
Section 5:	DOCUMENT INFORMATION
	If the document is other than an EDP/ECR, complete this section for: Requesting controlled distribution services from SDDC (also see Block 9) and/or Releasing a document to SDDC (also see Block 10).
13	Enter Document Number and Title
13A	Authorized Derivative Classifier: Sign name indicating reviewed for classification in accordance with DOE Order 5650.2B, The Classification Information and DOE Order C471.1, Identification and Protection of Unclassified Controlled Nuclear Information.
13B	Classifier: If Document Contains UCNI Material, place stamp in block.
Section 6:	TRACKING INFORMATION
14-16	Enter Requestor Name, Phone/Pager, and Charge Number.
17-19	Enter Landlord Company, Company Authorizing Design, and Company Performing Design
20-23	Enter Site Design Document Control (SDDC) support personnel name or designated Engineering Order (EO) Coordinator name (as applicable) and the Date; EO number, if applicable; and EO Distribution Date, if applicable.

APPENDIX 1 Page 2 of 2

RFETS	ROCKY FLATS ENVIRON TECHNOLOGY ST	nmental Engineerin			g Orde	g Order - Continued			1-W56-COEM-AMN-101 Appendix 1	
Section 1A: E	Document Identi	fication	:		_					
24. IWCP/Author	ization Project Numb	ег			25. Buildin	g	26. Date		27.	Page 2 of
28. Modification I	Description Title									
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31. Designer 1										N/A
32. Responsible Engi	ineering Manager 1									N/A
33. Design Checker										N/A
34. Landlord ²										N/ATTA
35. Health & Safety	2,5									
36. Criticality Safety	Engineer 3, 5	•								
37. Nuclear Safety Er	ngineer 3, 5									
38. Radiological Eng	ineer ^{4, 5}									
39. Quality Assurance	e 6									N/A
40. Customer Service	Organization 6									N/AT
41.										
42.										
43.										
44.										
45.										
	Required for ESP and RD		Design Pack	ages.						
	ingineering Design Packa avolves fissionable mater	~	as defined in	Nuclear Critic	ality Safety Ma	nual.				

4-Required if ALARA Design Review Screen fails.

5-Telecom approval or "Signature on File" allowed. See instructions on back of form for documentation requirements.

6-QA required if package contains specifications. Customer Service Organization required if package contains specifications for waste commodities

APPENDIX 1

ENGINEERING ORDER - CONTINUATION FORM COMPLETION INSTRUCTIONS

	Block	Instructions						
	Note: Use th	Note: Use the Continuation Sheet (DES-210, Form 9) if more room is required.						
	Section 1A: DOCUMENT IDENTIFICATION							
	24-28	Enter information from EO, Section 1, Page 1.						
	Section 4A:	CONTRIBUTED DISTRIBUTIUON						
	29	See instructions on EO, Section 4, Page 1.						
	Section 7: I	OOCUMENTS AFFECTED						
		Use this section if applicable, however, DO NOT use this section in place of the Baseline Document Change Form (BDCF) as required for an EDP/ECR in DES-210.						
	30							
	Section 8: REVIEW CONCURRENCE AND APPROVAL							
Kev I, Cn Z	31-45	Obtain required concurrence and approval signatures for EDPs/ECRs. Refer to signature notes at bottom of EO and to DES-210. "Signature on File" (/s/) is acceptable ONLY if the reviewer signed concurrence on the Review Comment Sheet.						
	Telecom	Instructions for Note 5						
7 .	Approval	Telecom approval may be obtained if authorized by the Responsible Engineering Manager. Reviews are to be documented on a Review Comment Sheet. If authorized, document telecom approval as follows: In Name Column, print the name of the individual providing telecom approval followed by: "Telecom Approval", then enter your initials and date of approval.						
Nev 1, 011 A	Signature on File	Print the name, company, phone, and pager of the reviewer whose signature is on a Review Comment sheet. Designer initial the box marked "Signature on File" to indicate the signed Comment Review sheet is included in the EDP.						

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APPENDIX 2

DRAWING EXCERPT FORM

RFETS	ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE	Drawing Excerpt Form	1-W56-COEM-AMN-101 Appendix 2
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emi of Master	Title Block Drawing Number:	Sheet of Revision / Issue	If the drawing excerpt is to large, remove the Title Blo
roved for use		REVISION / ISSUE	 Section from this form and attach it to the drawing excerpt. Cross out existing Title Block, if showing.

Page 4 -54							0	
Page 1 of <u>1</u>			DOC	UMENT (CHANGE FORM (DCF)		DCF #: Rev 4, Ch 4	
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Phone/Pager/	Location:	: 5905/212-1162/B	130		Exi	sting Document Numbe	er and Revision	
<u>②</u>				, ,	1	ocument Number and F	Revision (if Applicable)	
Responsible . Manager:	John Gilr Print		Ilmor	(g/30/9°) Date		Type of Docu	ment	
Organization:	.Kaiser F	1111	·		Policy Di	rective Manu	Jal Technical Standar	đ
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SSOC K-H Engr. Programs John Gilmour No comment Wackenhut Srvs. /s/ Jeff Churchill NuOps No comment

Approval Authority: <u>Dave Ruscitto</u> Print

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5-6	01/15/99		
7	02/18/99		
8-21	01/15/99		
22	04/29/99	•	
23-28	01/15/99		
29	06/30/99		
30-40	01/15/99		
41	02/25/99		
42-43	06/30/99		
44-53	01/15/99		
54	04/29/99		
55-71	01/15/99		

The following DCFs are active for this document:

Rev 4. Ch 1 Rev 4, Ch 2 Rev 4, Ch 3 Rev 4, Ch 4

Total number of pages is 71

Although several safety program interfaces such as the ALARA review are specified in this procedure, the Designer is responsible for integrating the design process with other safety programs that have unique design interface requirements. Examples of Site safety program interfaces to consider are:

- Fire Protection
- Nuclear Criticality Safety
- Radiological Control
- WIPP

8.2.3 Natural Phenomena Hazards Determination

Site SSCs are evaluated in accordance with Engineering Standard SC-206. The evaluations assist the engineer in determining the appropriate Natural Phenomena Hazard (NPH) Performance Category requirements for Procurement Level and pre-operational instrument calibration requirements in accordance with Appendix 1.

8.2.4 Facility Safety

Process equipment used in areas from which immediate evacuation may be required **SHALL** be so designed that leaving the equipment will not introduce significant risk.

8.3 TASK 3 Complete Design Output Documents

Design Output Documents provide the technical justification necessary for EDP approval. All aspects of the designing/planning process are to be considered when deciding what Design Output Documents are applicable such as drawings, calculations, design specifications, and post-maintenance tests (PMTs).

8.3.1 Drawings

Drawings are to be prepared in accordance with AMN-101 and Site Engineering Standard SX-300.

8.3.2 ALARA Design Review Screen

An ALARA Design Review Screen is completed for all EDPs (see Appendix 2, Form 3). Radiological Engineering is to be contacted if the results of the ALARA Design Review Screen indicate the need to complete an ALARA Design Review. (Also see the Site Radiological Control Manual.)

Additional requirements should be specified if the design involves fissionable material operations (see 1-MAN-018-NSM, *Nuclear Safety Manual*). The comments section of the ALARA Design Review Screen (Form 3) is used to document this information.

8.3.3 Calculations

All calculations are documented on the forms provided in this procedure (see Appendix 2):

- Calculation/Technical Basis Cover Sheet and Revision Summary (Form 4)
- Calculation/Technical Basis Sheet (Form 4A)
- Calculation Sheet (Form 4B)

9. RECORDS

9.1 Engineering Design Package Forms

Electronic copies of all forms in this procedure are on the site's intranet engineering organization web page. Hardcopy forms in this procedure can be obtained from SDDC. All forms initiated as a result of this procedure should be completed in a legible and indelible medium.

9.2 Records Processing Instructions

The following documents are initiated, processed or maintained as a result of this Procedure and SHALL be processed as follows:

	Record Type		Processi
Record Identification	Determination	Protection / Storage Methods	Instructi
ESP Engineering Design Package Final Record with contents as specified in Table 1 or RDP Engineering Design Final Record with contents as specified in Table 2	Quality Assurance Record when the closure process is completed.	All design/planning records associated with the final EDP/IWCP Type 2 or Type 3 Work Package are released to SDDC for interim storage until the closure process is complete. Responsible managers SHALL implement a reasonable level of protection to prevent loss and or degradation.	When inactive defined in 1-1 RM-001), training Site Records Management accordance w V41-RM-001
ESP Engineering Design Package Final Record with contents as specified in Table 1 or RDP Engineering Design Final Record with contents as specified in Table 2	WIPP/LL/LLM Quality Assurance Record when the closure process is completed. Note: An Engineering Design Package Final Record is a W IPP/LL/LLM QA Record if the design process supports the design of TRU or Low Level Waste items as identified on the Engineering Order.	Completed (authenticated) WIPP/LL/LLM QA records SHALL be transmitted to the NQA-1 Waste Records Center within one (1) working day of completion. During this one (1) working day period, Responsible Managers SHALL continue to implement a- reasonable level of protection to prevent loss and or degradation. Completed (authenticated) WIPP/LL/LLM QA records that are not transmitted within the one (1) working day time period, SHALL be stored in one (1) hour fire-rated cabinets for a period not to exceed six (6) months.	Transmit copyrecord packag NQA-1 Waste Records Cent accordance w PRO-077-WI 005, Manages WIPP Inform Prior to Transto NQA-1, W Records Cent

Rev 4, Ch

10. REFERENCES

CRD-420.1, Facility Safety

DOE Order 5480.20A, Personnel Selection, Qualification and Training Requirements for DOE Nuclear Facilities

DOE Order 6430.1A, General Design Criteria

DOE M 440.1-1, DOE Explosives Safety Manual

DOE Standard 1020-94, Natural Phenomena Hazards Design and Evaluation criteria for DOE Facilities

DOE Standard 1021-93, Natural Phenomena Hazards Performance Categorization Guidelines for Structures, Systems, and Components

DOE/TIC-11268, A Manual for the Prediction of Blast and Fragment Loading of Structures

Engineering Standard SC-206, Natural Phenomena Hazard Analysis of Structures, Systems, and Components

Engineering Standard SX-300, General Drafting Standard

MAN-027-SERM, Site Engineering Requirements Manual

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